INTERESTING CROP EXPERIMENTS the composition of the plant is the fac-

Developed at Hardinsburg by Members of the Kentucky Experiment Station and United States Department of Agriculture.

Poor Soil Was Used

been conducted jointly by the Kentucky have been. The results of one year's Experiment Station and the U S. Depart | work on tobacco are given for what they ment of Agriculture at Hardinsburg are worth, subsequent investigations 4 for the past two years. Results are may alter conclusions to some extent, rather indefinite as yet and absolute The experimental field consisted of duced an increase of only 20 pounds, conclusions can not be drawn. How- two acres, one of which received air while asid phosphate increased the yield ever, some interesting things have been slacked lime at the rate of one ton per 207 pounds Some might think that brought out and will be presented for acre. The yield of tobacco was not the difference could be accounted for in the benefit of Breckenridge county far- materially influenced by the application the fact that only 200 pounds of sulphate

was selected in the suburbs of Har- Christian county. A similar experiment | The maxium amounts of both materdinsburg. The field is thoroughly iu- is being conducted this year at Lexing- ials were used, if a greater amount of to raise the wheat, The same comparfested with insect pests, especially the ton in which an adverse effect from lime either had been applied harmful results isons will be made with wheat as were wire worm which is particularly de- can be noticed. It seems fairly safe to would possibly have followed. When made on tobacco with reference to the structive to tobacco. The pest bores say that under general conditions in potash was added to acid phosphate the elements when used alone to determine into the stalk below the surface of the Kentucky little results can be expected yield over phosphate alone was 46 poun- which is the more important in wheat ground and continues its way downward from the use of lime on tobacco. Ex ds per acre. Sulphate of potash added production. into the roots, eating out the center of periments in Virginia tobacco fields to dry blood produced 40 pounds per the stalk. After such an attack the show marked advantages from the use acre less than dried blood alone. The Plat Fertilizer plants have very little vitality to grow of lime. The function of lime in such results clearly minimizes the use of potand remain very much the same size as cases seems to be to render the nitrog ash and emphasizes that of phosphates. 2 Sulphate of Potash 200 lbs. 16.5 bu. 2.7 bu at Kincheloe's drug store in Hardinswhen transplanted. Late in the season enous matter available. The inference different yield. Since the pest works especially the latter. The field is to be low. entirely underground, remedies are sown in clover and the results will be very difficult to apply, in fact there is observed.

Amounts Yield Increase. Sulphate of potast was added to acid phosphate the yield was 18.1 bushels phate plats produced a much lighter, no known way to control it. It is noticeable this year that plats of the old meadow that were planted in some other crop and then followed by tobacco fact that a large amount of potash is cetter results are obtained. The cultivation given the preceding crop seems to have the effect of ridding the soil of the pest.

the yields secured from the use of fer- The composition of the soil rather than

General farm crop experiments have tilizers were not as large as they should

of lime, The same results have been of potash was used whereas 800 pounds ditional application of fertilizers. The Plat Fertilizer A poor light clay soil of a wet nature observed in our experimental fields in of acid phosphate was applied.

The impression is general that potash is the element most needed in tobacco production. This is perhaps due to the found in the ssh of the tobacco plant, The grower readily infers that this in- 20 Stable Manure gredient must be supplied if a large crop of tobacco is to be expected. The fact On account of wet weather conditions that the soil may be rich in its stores of prevailing last year and insect injuries, potash is not taken into consideration.

It is interesting to make a comparison of the elements when used alone, to determine which is the most needed in our soils. Dried blood was the source of ammonia or nitrogen, sulphate of potash furnished potash, and acid phosphate phosphorus. The following table gives the results from the use of the fertilizers and the increase in yied as compared with the "no fertilizer" plat. Plat Fertilizer Amount Yield Increase per A. per A. 1 Dried Blood 400 lbs. 854 lbs

Sulph. of potash 200 lbs. 733 lbs. Acid Phosphate 800 lbs, 920 lbs. 713 lbs. It will be observed that potash pro

Some of the bighest vielding plants 3 Acid Phosphate 800 lbs. 18.6 bu. 4.8 bu. burg. the plants may recover to some extent should not be drawn that lime will not as compared with the average of the no 4 No Fertilizer and be able to make, at the best, an in- effect the yield of grain and clover crops fertilizer plats are given in the table be-

9 Acid Phosphate 800 lbs. Dried Blood 400 lbs.

Sulphate of Potash 100 lbs. 1134 lbs. 366 lbs 9 Acid Phosphate 600 lbs. Dried Blood

5 tons 1000 lbs. 292 lbs.

Fertilizer Plate WHEAT EXPERIMENTS

was followed by wheat without the ad- izer.

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Is now making 10 tons of Pure Ice every 24 hours. Write or telephone us your orders which will receive our prompt and careful at-

Marion Weatherholt, Sec'y.

plant food remaining after the tobacco crop was produced being depended upon

Amount Yield Increase.

1 Dried Blood 400 lbs, 16.4 bu.

The results favor the use of phosphates for wheat as well as tobacoo. When phosphate the yield was 18.1 bushels phate plats produced a much lighter, per acre. Acid phosphate and dried paler colored straw than the plats reblood gave a yield of 17.6. It will be ceiving dried blood, potash or no fertilnoticed that neither element added to izer. Many inferred that the yield acid phosphate was quiet able to equal would not be so good on these on ac-Sulphate of Potash 100 lbs. 1193 lbs. 425 lbs. the phosphate alone. However, appli- count of such color, but the final results cations of all three elements returned did not bear out the idea. Where dried vields practically equal to phosphates blood, on ammonia or nitrogenous feralone. The following table gives the tilizer was used, a very dark, rich green yield of some of the best plats in com-The field tilled in tobacco last year parison with plats receiving no fertil-

3 Acid Phosphate 800 lbs. 18.6 bu. 5,1 bu. Acid Phosphate 800 lbs. Dried Blood 400 lbs. 0 Stable Manure 5 tons 17.5 bu. 4.0 bu.

Fertilizer Plats The wheat was of excellent quality,

Average of No.

the grain was large and of a amber red color. Samples from each plat with their respective yields are on exhibition

straw was produced, but this feature seemed to have no particular relation

Colt Show

Irvington, Ky., Aug. 9 (-Special-) Chas. H. Drury will have his annual colt and mule show at Bewleyville on Sulphate of Potash 100 lbs. 18.5 bu. 5.0 bu, Saturday, September 3. 1910. Do not put off longer getting your colts ready for this show, and have them well broken to halter. Will have special

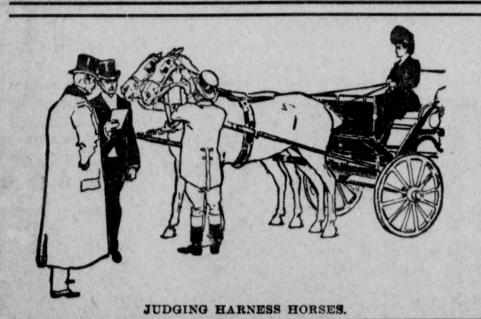
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s when you do some great deed or discover some wonderful fact. This hour came to J. R. Pitt, of Rocky Mt., N. C. when he was suffering intensely, as he The difference in the appearance of says "from the worst cold I ever had, I the wheats while growing in the field then proved to mv great satisfaction, what a wonderful Cold and Cough cure Dr. King's New Discovery is. For, after taking one bottle, I was entirely cured. You can't say anything too good of a medicine like that." Its the surest and best remedy for diseased lungs, Hemmorrhages, LhGrippe, Asthma, Hay Fever any throat or lung trouble, 50c. \$1.00. Trial bottie free, Guaranteed by Severs Drug Co.

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